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Amend Section 5155 to read:

(a) **Scope and Application.**

(1) This section establishes requirements for controlling employee exposure to airborne contaminants and skin contact with those substances which are readily absorbed through the skin and are designated by the "S" notation in Table AC-1 at all places of employment in the state.

* * * *

Permissible Exposure Limits for Chemical Contaminants

Chemical Abstracts Registry Number ^(a)	Skin ^(b)	Name ^(c)	PEL ^(d)		Ceiling ^(g)	STEL ^(o)	
			ppm ^(e)	mg/M ^{3(f)}		ppm ^(e)	mg/M ^{3(f)}
75070		Acetaldehyde	100 <u>25</u>	180 <u>45</u>	<u>C</u>	150	270
			* * * *				
<u>75865</u>		<u>Acetone cyanohydrin as CN</u>	<u>4.7</u>	<u>5</u>	<u>C</u>		
			* * * *				
<u>98862</u>		<u>Acetophenone</u>	<u>10</u>	<u>49</u>			
			* * * *				
<u>124049</u>		<u>Adipitic acid</u>	<u>—</u>	<u>5</u>			
<u>111693</u>	<u>S</u>	<u>Adiponitrile</u>	<u>2</u>	<u>8.8</u>			
			* * * *				
3825261	S	Ammonium perfluorooctanoate	—	0.1 <u>0.01</u>			
			* * * *				
<u>98884</u>		<u>Benzoyl chloride</u>	<u>0.2</u>	<u>1.1</u>	<u>C</u>		
			* * * *				
<u>140114</u>		<u>Benzyl acetate</u>	<u>10</u>	<u>61</u>			
			* * * *				
7726956		Bromine	0.1	0.7	<u>C</u>	0.3	<u>2</u>
			* * * *				
98511		p-tert-Butyltoluene	40 <u>1</u>	60 <u>6.1</u>		20	120
			* * * *				

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Chemical Abstracts Registry Number ^(a)	Skin ^(b)	Name ^(c)	PEL ^(d)		Ceiling ^(g)	STEL ^(o)	
			ppm ^(e)	mg/M ^{3(f)}		ppm ^(e)	mg/M ^{3(f)}
56235	S	Carbon tetrachloride	2	12.6	200 ppm	<u>10</u>	<u>63</u>
			* * * *				
7440473		Chromium metal	==	0.5			
		Chromium (II) compounds, as Cr	==	0.5			
		Chromium (III) compounds, as Cr	==	0.5			
		Chromium (VI) compounds, as Cr	==	==	0.1 mg/M ³		
		Water soluble Cr (VI) compounds	==	0.05			
		Certain w Water insoluble Cr (VI) compounds	==	0.05 <u>0.01</u>			
			* * * *				
7440484		Cobalt, metal fume and dust, as Co	—	0.05 <u>0.02</u>			
			* * * *				
		<u>Diatomaceous earth; see Silica-amorphous</u>					
			* * * *				
106467		p-Dichlorobenzene; 1,4-dichlorobenzene	75 <u>10</u>	450 <u>60</u>	200 ppm	110	675
			* * * *				
<u>764410</u>	<u>S</u>	<u>1,4 -Dichloro-2-butene</u>	<u>0.005</u>	<u>0.025</u>			
			* * * *				
111422	<u>S</u>	Diethanolamine	3 <u>0.46</u>	15 <u>2</u>			
109897	<u>S</u>	Diethylamine	10 <u>5</u>	30 <u>15</u>	<u>C</u>	25	75
			* * * *				
100378	S	2-(Diethylamino)_ethanol	10 <u>2</u>	50 <u>9.6</u>			
			* * * *				
<u>14857342</u>		<u>Dimethylethoxysilane</u>	<u>0.5</u>	<u>2.1</u>		<u>1.5</u>	<u>6.4</u>
			* * * *				
57147	S	1,1-Dimethylhydrazine	0.5 <u>0.01</u>	1 <u>0.025</u>			
			* * * *				
85007		Diquat; 1,1'-ethylene-2,2'-dipyridinium dibromide	—	0.5			
		<u>Total dust</u>	==	<u>0.5</u>			
		<u>Respirable fraction⁽ⁿ⁾</u>	==	<u>0.1</u>			
			* * * *				

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Chemical Abstracts Registry Number ^(a)	Skin ^(b)	Name ^(c)	PEL ^(d)		Ceiling ^(g)	STEL ^(o)	
			ppm ^(e)	mg/M ^{3(f)}		ppm ^(e)	mg/M ^{3(f)}
2104645	S	EPN; 0-ethyl 0-(p-nitrophenyl) phenylphosphonothioate	—	0.5 <u>0.1</u>			
			* * * *				
75047	<u>S</u>	Ethylamine	40 <u>5</u>	48 <u>9.2</u>	<u>C</u>		
			* * * *				
75003	<u>S</u>	Ethyl chloride; chloroethane	1,000 <u>100</u>	2,600 <u>264</u>			
			* * * *				
107211		Ethylene glycol (vapor)	50 <u>40</u>	125 <u>100</u>	C		
			* * * *				
		Glass, fibrous or dust (<7µm in diameter); see Particulates not otherwise regulated	1.0 f/cc ^(q)				
			* * * *				
556525		Glycidol; 2,3-epoxy-1-propanol	25 <u>2</u>	75 <u>6.1</u>			
			* * * *				
76448	S	Heptachlor; 1,4,5,6,7,8,8-hepta- chloro- 3a,4,7,7a-tetrahydro-4,7-methanoindene	—	0.5 <u>0.05</u>			
			* * * *				
<u>118741</u>	<u>S</u>	<u>Hexachlorobenzene</u>	—	<u>0.025</u>			
			* * * *				
302012	S	Hydrazine	0.1 <u>0.01</u>	0.1 <u>0.013</u>			
			* * * *				
74908	S	Hydrogen cyanide	<u>4.7</u>	<u>5</u>	<u>C</u>	4.7	5
			* * * *				
7439965		Manganese and compounds, as Mn	—	5 <u>0.2</u>	C		
12079651	S	Manganese fume, as Mn	—	4 <u>0.2</u>		—	3
		Manganese, cyclopentadienyl- tricarbonyl, as Mn	—	0.1			
		Manganese tetroxide	—	4 <u>0.2</u>			
			* * * *				

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Chemical Abstracts Registry Number ^(a)	Skin ^(b)	Name ^(c)	PEL ^(d)		Ceiling ^(g)	STEL ^(o)	
			ppm ^(e)	mg/M ^{3(f)}		ppm ^(e)	mg/M ^{3(f)}
7439976	S	Mercury, as Hg-vapor metallic and inorganic compounds as Hg	—	0.05 0.025	0.1 mg/M ³		
7439976	S	Mercury (aryl and inorganic compounds) as Hg	—	0.1	C		
			* * * *				
60344	S	Methyl hydrazine; monomethyl hydrazine	0.2 0.01	0.35 0.019	C		
			* * * *				
<u>1634044</u>		<u>Methyl tert-butyl ether; MTBE</u>	<u>40</u>	<u>144</u>			
			* * * *				
75525		Nitromethane	100 2	250 5			
			* * * *				
127184		Perchloroethylene	25	170	300 ppm	<u>100</u>	<u>685</u>
			* * * *				
122601	<u>S</u>	Phenyl glycidyl ether; PGE; 1, 2-epoxy-3-phenoxypropane	4 0.1	6 0.6			
			* * * *				
61790532		Silica, amorphous		6			
		Diatomaceous earth	—	6			
		<u>Total dust</u>	—	<u>6</u>			
		<u>Respirable fraction⁽ⁿ⁾</u>	—	<u>3</u>			
		Precipitated and gel	—	6			
			* * * *				
<u>74222972</u>		<u>Sulfometuron methyl</u>	—	<u>3.5</u>			
			* * * *				
<u>100210</u>		<u>Terephthalic acid</u>	—	<u>10</u>			
			* * * *				
509148		Tetranitromethane	4 0.005	8 0.04			
			* * * *				
79016		Trichloroethylene; trichloro-ethene	25	135	300 ppm	200 <u>100</u>	4080 <u>537</u>
			* * * *				
<u>102716</u>		<u>Triethanolamine</u>	—	<u>5</u>			
			* * * *				

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Chemical Abstracts Registry Number ^(a)	Skin ^(b)	Name ^(c)	PEL ^(d)		Ceiling ^(g)	STEL ^(e)	
			ppm ^(e)	mg/M ^{3(f)}		ppm ^(e)	mg/M ^{3(f)}
121448	<u>S</u>	Triethylamine	40 <u>1</u>	40 <u>4.1</u>	<u>C</u>	45	60
* * * *							
552307		Trimellitic anhydride	0.005	0.04	<u>C</u>		
* * * *							
108054		Vinyl acetate	10	30		20 <u>15</u>	60 <u>45</u>
* * * *							
106876	S	Vinyl cyclohexene dioxide	40	60			
100403	<u>S</u>	4-Vinyl cyclohexene	0.1	0.4			
106876	<u>S</u>	Vinyl cyclohexene dioxide	<u>0.1</u>	<u>0.57</u>			
* * * *							

(a) The Chemical Abstracts Service Registry Number is a designation used to identify a specific compound or substance regardless of the naming system; these numbers were obtained from the Desk Top Analysis Tool for the Common Data Base and from the Chemical Abstracts Indexes.

(b) Refer to Section 5155(d) for the significance of the Skin notation.

(c) Trade Names Removed From Table AC-1.

TRADE NAME	CHEMICAL/GENERIC NAME
Abate	see Temephos
Ammate	see Ammonium Sulfamate
Aqualin	see Acrolein
Arasan	see Thiram
Azodrin	see Moncrotophos
Baygon	see Propoxur
Bidrin	see Dicrotophos
Butyl Cellosolve	see 2-Butoxyethanol
Cellosolve	see 2-Ethoxyethanol
Cellosolve Acetate	see 2-Ethoxyethyl acetate
Compound 1080	see Sodium Fluoracetate
Coyden	see Clopidol
Crag herbicide	see Sesone
Cythion	see Malathion
Dasanit	see Fensulfothion
Delnav	see Dioxathion
Dibrom	see Naled
Difolatan	see Captafol
Disyston	see Disulfoton
Dowtherm A	see Phenylether and Biphenyl
Dursban	see Chloropyrifos
Dyfonate	see Fonofos
Fermate	see Ferbam
Freons	see Fluorocarbons
Furadan	see Carbofuran
Guthion	see Azinphos Methyl
Korlan	see Ronnel
Lannate	see Methomyl
Mariate	see Methoxychlor
MLT	see Malathion
Moxie	see Methoxychlor

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Nialate	see	Ethion
Nankor	see	Ronnel
Phosdrin	see	Mevinphos
Pival	see	Pindone
Plictran	see	Cyhexatin
Santobrite	see	Pentachlorophenol
Sevin	see	Carbaryl
Systox	see	Demeton
Teflon	see	Polytetrafluoroethylene
Thimet	see	Phorate
Thiodan	see	Endosulfan
Tordon	see	Picloram
Trolene	see	Ronnel
Vapona	see	Dichlorvos
Weedone 638	see	2,4-D
Zoalene	see	Dinitolmide

- (d) For the definition and the application of the Permissible Exposure Limit (PEL), refer to Section 5155(b) and (c)(1).
- (e) Parts of gas or vapor per million parts of air by volume at 25°C and 760mm Hg pressure.
- (f) Milligrams of substance per cubic meter of air at 25°C and 760mm Hg pressure.
- (g) Refer to Section 5155(b) and (c)(3) for the significance of the Ceiling notation. A "C" notation in this column means the values given in the PEL columns are ceiling values. A numerical entry in this column represents a ceiling value in addition to the TWA values.
- (h) A number of gases and vapors, when present in high concentrations, act primarily as asphyxiants without other adverse effects. A concentration limit is not included for each material because the limiting factor is the available oxygen. (Several of these materials present fire or explosion hazards.)
- (i) Coal tar pitch volatiles (benzene or cyclohexane-soluble fraction) include polynuclear aromatic hydrocarbons (some of which are known carcinogens) that evolve upon heating the distillation residues from coal tar.
- (j) This standard applies to the cotton waste processing operations of waste recycling (sorting, blending, cleaning and willowing) and ginning. It does not apply to cotton gins, cottonseed oil industry, or operations covered by Section 5190.
- (k) A PEL of 0.05 ppm shall apply to exposures involving a mixture of ethylene glycol dinitrate and nitroglycerin.
- (l) As sampled by method that does not collect vapor.
- (m) Thermal decomposition of the fluorocarbon chain in air leads to the formation of oxidized products containing carbon, fluorine and oxygen. An index of exposure to these products is possible through their alkaline hydrolysis followed by a quantitative determination of fluorine content. No particular concentration limit is specified pending evaluation of the toxicity of the products but concentrations should be kept below the sensitivity of the analytical method.
- (n) The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics:

Aerodynamic Diameter in Micrometers (unit density sphere)	Percent Passing Selector
≤ 2	90
2.5	75
3.5	50
5.0	25
10	0

Source: American Conference of Governmental Industrial Hygienists TLY Committee 1968 Proceedings.

- (o) Refer to Sections 5155(b) and (c)(2) for the definition and application of the Short Term Exposure Limit (STEL).
- (p) The STEL for Beryllium and beryllium compounds is a 30 minute time weighted average.
- (q) [Reserved] Fibers per cubic centimeter of air at 25°C and 760mm Hg pressure. To be considered a fiber for this limit the glass particle must be longer than 5µm, have a length to diameter ratio of three or more, and have a diameter less than 3µm. The National Institute for Occupational Safety and Health (NIOSH), Method 7400, Issue 2, August 15, 1994, which is hereby incorporated by reference, shall be used for measuring airborne fiber concentrations.
- (r) Compliance with the subtilisins PEL is assessed by sampling with a high volume sampler (600 – 800 liters per minute) for at least 60 minutes.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Sections 142.3 and 144.6, Labor Code.